08/355/652

ABSTRACT

A lase copies process comprising: irradiating a laser beam operated in a pulsed mode to a single crystal semiconductor substrate of a first conductive type in an atmosphere of an impurity gas which imparts the semiconductor substrate a conductive type opposite to said first conductive type and incorporating the impurity contained in said impurity gas into the surface of said semiconductor substrate, thereby modifying the type and/or the intensity of the conductive type thereof. Provides devices having a channel length of 0.5 µm or less and impurity regions 0.1 µm or less in depth.